

Application No.: 10/655,915
Response dated: January 24, 2008
Reply to Office Action dated: July 31, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method of ~~assessing~~ screening ~~whether~~ a human subject is ~~susceptible~~ for susceptibility to type 2 diabetes comprising the steps of:

- (a) determining the SorCS1 cDNA sequence of ~~that~~ the subject;
 - (b) deducing the amino acid sequence encoded by the sequenced cDNA;
- and
- (c) comparing the deduced SorCS1 amino acid sequence with a reference sequence, SEQ ID NO:4, ~~wherein~~; and
 - (d) screening for a difference in the deduced amino acid sequence relative to reference SEQ ID NO:4 ~~indicates that the subject is susceptible to developing type 2 diabetes, wherein the difference consisting of is a change from a threonine to a isoleucine substitution at amino acid position 52 of the human SorCS1 amino acid sequence, and wherein the difference is associated with susceptibility to type 2 diabetes of the SorCS1 amino acid sequence.~~

2. (Currently amended) A method of ~~assessing screening whether~~ a human subject is ~~susceptible~~ for susceptibility to type 2 diabetes comprising the steps of:

(a) determining the SorCS1 cDNA sequence of the subject ~~in the SorCS1;~~
and

(b) comparing the determined SorCS1 cDNA sequence with a reference sequence, SEQ ID NO:3; and

(c) screening for a difference at nucleotide position 163 in the determined sequence relative to reference SEQ ID NO:3, the difference consisting of a change from a cytosine to a thymine at nucleotide position 163, wherein the nucleotide difference at position 163 of the human SorCS1 cDNA sequence is associated with susceptibility to type 2 diabetes wherein a difference in the determined cDNA sequence relative to SEQ ID NO:3 indicates that the subject is susceptible to developing type 2 diabetes, wherein the difference is a cytosine to a thymine substitution at nucleotide position 172 of the SorCS1 cDNA sequence

3. -12. (cancelled).